

JP56147364 – English Language Abstract (WPINDEX)

L24 ANSWER 16 OF 26 WPINDEX (C) 2003 THOMSON DERWENT
AN 1981-95807D [52] WPINDEX
TI Amalgamated zinc powder prodn. - by adding surfactant and mercury in an
aq. bath with applied oscillation and bath agitation.
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PA (MATU) MATSUSHITA ELEC IND CO LTD
PI.B JP 56147364 A 19811116 (198152)* 3p
PRAI JP 1980-50589 19800416
PNC 1
CYC 1
AB JP 56147364 A UPAB: 19930915
Amalgamated Zn powder is made by prep. a bath of hot water including
surfactant and contg. Zn powder, adding metal Hg into the hot water
with
applying oscillation (e.g. by an electro-mechanical transducer to the
Zn
powder and agitating the hot water.
The amt. of the surfactant is 0.5-7wt.% to the amt. of the hot
water.
The surfactant is pref. of nonion gp. such as of **fatty acid**
monoglyceride, polyoxyethylene alkylamine, polyoxyethylene alkyl ester,
sorbitan **fatty acid** ester, or polyoxyethylene alkyl phenol ether. The
temp. of the hot water is pref. below 80 deg.C.
The powder is pref. used for a **Zn electrode** of an alkaline cell.
The amalgam formation is to prevent corrosion of the **Zn electrode** by
alkaline electrolyte soln. Amalgam formation is efficiently carried out
by
adding surfactant, and by applying oscillation with agitating.
FA AB
FS CPI GMPI